

#11/supp Response  
V Brown  
7/16/03

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of: :  
Emmanuel Robert : Group Art Unit 2878  
Serial No. 10/050,111 : Examiner Y. Guadalupe  
Filed: January 18, 2002 : Docket No. 19325  
For: CONTROL DEVICE WITH :  
MOBILE COMPONENT :  
MOUNTED ON A BALL PIVOT :

SUPPLEMENTAL AMENDMENT

FAX RECEIVED

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

JUL 11 2003

TECHNOLOGY CENTER 2800

Sir:


In further response to the Office Action dated April 4, 2003, Applicant wishes to add the following additional comments in support of the allowability of the claims.

An important advantage afforded by the instant invention is that by the combination of the two photodector arrays 22 and the two spherical portions 20 carrying the uniformly spaced photodetectable points 26, the positions of the mobile component and its displacements around three axes of rotation may be determined over large angular displacements, typically larger than 45°, and up to 180° or even 360° around the pivot axis (Page 2, lines 17-22).

Allowance of the amended claims is courteously solicited.

Respectfully submitted,

7/10, 2003

  
Lawrence E. Laubscher, Sr.  
EFS Customer No. 30267311  
Registration No. 18,202  
745 South 23rd Street, Suite 300  
Arlington, Virginia 22202  
Telephone: (703) 521-2660